

AP-SG4500-52GT-4SFP

48Ports L2 Gigabit Access Switch

100/1000Mbps with 4*1G Uplink Ports+1 Console Port

KEY FEATURES

The AP-SG4500-52GT-4SFP delivers cost-effective, Gigabit Ethernet (GbE) standalone switches designed for enterprise-class access in campus and branch environments. These fully managed switches offer advanced Layer 2 features, ensuring seamless connectivity and efficient power distribution for network devices.

Engineered for operational simplicity, the AP-SG4500-52GT-4SFP reduces the total cost of ownership while providing scalable, secure, and energy-efficient network access. With intelligent services and enterprise-grade performance, these switches are ideal for businesses seeking reliable and high-performance network solutions.



PRODUCT OVERVIEW

Green Energy:

AP-SG4500-52GT-4SFP comply with IEEE 802.3az (Energy-Efficient Ethernet) standard, dramatically lower power consumption. With Innovative port-LED Shut-off function, the user can automatically set the switch port-LED UP or DOWN at a specified time period according to their needs to achieve functional, energy-saving correct results. Full account of low noise requirements of the environment, AP-SG4500 uses Fanless Design and Smart fan strategies to real-time temperature monitoring system, and reduce the noise pollution.

Enhanced Security:

AP-SG4500-52GT-4SFP provide a variety of security mechanisms like SYN Flood, Land, ICMP Flood attack prevention and other DOS class technology, BPDU Guard and Root Guard which avoid accidental topology loops and prevent illegal edge devices become root to cause unnecessary flapping.

IEEE 802.1X port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server.

Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets and forward by different policies. User-defined ACL provides more flexible access control for users.

AP-SG4500-52GT-4SFP support DHCP snooping, which prevents DHCP attacks and illegal DHCP SERVER by setting trust ports and untrust ports. With DHCP Snooping binding and option82 enabled, it can combine modules like dot1x and

ARP, or implement user-access- control independently.

AP-SG4500-52GT-4SFP support much more L2 security features such as ARP guard, Anti-ARP scanning, and other ARP and MAC Security technology to protect network security and reliability.

High Reliability:

AP-SG4500-52GT-4SFP support 4 Gigabit uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expansibility and performance of network.

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology. AP-SG4500-52GT-4SFP support G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings, double rings and other home networking.

Abundant Multicast Features:

AP-SG4500-52GT-4SFP also support MVR (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With MVR Trunk function, which could associate multicast VLAN to trunk port, AP-SG4500-52GT-4SFP combines the VLAN data into the same link, saving lots of resources for users.

AP-SG4500-52GT-4SFP could prevent multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated to multicast devices.

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PRODUCT SPECIFICATIONS

Hardware Specifications

Item		AP-SG4500-52GT-4SFP
Ports		48 x 10/100/1000Base-T + 4 x 100/1000Base-X (SFP)
Performance		
Switching Capacity		104Gbps
Forwarding Rate		77.4Mpps
MAC ADDRESS		16K
Jumbo Frame		12K
ACL Table		2048
Queues per port		8
VLAN TABLE		4K
Spanning Tree		802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding
Physical		
Dimension (W×H×D)		442mm x 220mm x 43.6mm
Power Input		100~240VAC, 50~60Hz
Power Consumption		40W
Cooling		Active
Temperature		Working 0°C~50°C, Storage -40°C~70°C
Relative Humidity		5%~95%, non-condensing
EMC Safety		CE, RoHS
Main Features		
Forwarding		Storage and Forwarding
VLAN		Port-based VLAN, IEEE802.1Q, private VLAN, Protocol VLAN, Voice VLAN, MAC VLAN Normal QinQ, Selective QinQ, Flexible QinQ VLAN Translation, N:1 VLAN Translation
DHCP		IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Relay Option 82, Option 37/38 IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server
Reliability	Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding
	LACP	16 groups / 8 ports
	L2Ring Protection	MRPP ITU-T G.8032 Loopback Detection Fast Link
Security		IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL Time Range ACL ACL on VLAN interface Storm Control based on packets and bytes Port Security, MAC Limit based on VLAN and Port Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding ND Snooping DAI IEEE 802.1x Authentication, Authorization, Accounting Radius, TACACS+
Multicast		IGMP v1/v2/v3 snooping, IGMP Fast leave MVR MLD v1/v2 snooping IPv4/IPv6 DCSCM
QoS		8 Queues Per Port Bandwidth Control Flow Redirect Classification based on ACL, VLAN ID, COS, TOS, DSCP, Policing Based on Port and VLAN Single Rate single barrel double color for Policing Remark DSCP, COS/802.1p, Precedence, TOS SP, WRR, SWRR, WDRR for Scheduling Match the IP fragmentation of message

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Item	AP-SG4500-52GT-4SFP
Maintenance and Operation Management	TFTP/FTP CLI, Telnet, Console, Reset Web/SSL (IPv4/IPv6) SSH (IPv4/IPv6) SNMPv1/v2c/v3 SNMP Trap Public & Private MIB interface RMON 1,2,3,9 Ping, Trace Route Radius Authentication Syslog (IPv4/IPv6) SNTP/NTP (IPv4/IPv6) Dual IMG, Multiple Configuration Files Port Mirror, CPU Mirror, RSPAN sFlow (SG4500-28P/52P) OAM EFM VCT, DDM ULDP(like Cisco UDLD) LLDP/LLDP MED
Green Energy	IEEE 802.3az (Energy Efficient Ethernet) Fanless (10P and 28P) LED Shut-off

ORDER INFORMATION

Product	Description
AP-SG4500-52GT-4SFP	L2 Gigabit Intelligent Ethernet Switch with 48 10/100/1000Base-T and 4 100/1000Base-SFP ports, 100-240VAC Power Input



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